

WHAT WE CLAIM IS

1 A method of electroplating wherein a complex current
5 waveform is passed between an anode and an object being
electroplated.

2. A method as claimed in claim 1 wherein the waveform is a
cyclic alternating type having two portions, a positive portion
10 including one or more spikes and a negative portion.

3. A method as claimed in claim 1 wherein the waveform is a
cyclic alternating type having two portions, a positive
triangular shaped portion including one or more spikes and a
15 negative portion.

4. A method as claimed in claim 1 wherein the waveform is a
cyclic alternating type having two portions, a positive
triangular shaped portion having a peak value of substantially
20 5ASD, the forward portion including one or more spikes having
peak values of substantially 11.25ASD, and a negative portion
having a peak value of substantially 12ASD.

5. A method of electroplating an object including:

providing a electroplating bath solution with one or more anodes therein,

5 disposing an object to be electroplated in the bath, and

passing a complex current waveform between the anode nodes and the object.

6. A method as claimed in claim 5 wherein the waveform is a
10 cyclic alternating type having two portions, a positive triangular shaped portion including one or more spikes and a negative portion.

7. A method as claimed in claim 5 wherein the waveform is a
15 cyclic alternating type having two portions, a positive portion including one or more spikes and a negative portion, and the method further including vibrating the object and/or agitating the bath solution.

20 8. A method of electroplating an object including:

providing a electroplating bath solution with one or more anodes therein,

disposing an object to be electroplated in the bath,

passing a complex current waveform between the anode nodes and the object, wherein the waveform is a cyclic alternating type having two portions, a positive triangular shaped portion having a peak value of substantially 5ASD, the forward portion
5 including one or more spikes having peak values of substantially 11.25ASD, and a negative portion having a peak value of substantially 12ASD, and vibrating the object and/or agitating the bath solution.

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